

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/552, 287 A
Source: IFWO
Date Processed by STIC: 2/28/2007

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/552, 287 A

CRF Edit Date: 2/28/2007
Edited by: DA

___ **Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line**

___ **Corrected the SEQ ID NO. Sequence numbers edited were:**

___ **Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:**

☒ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ **Inserted mandatory headings/numeric identifiers, specifically:**

___ **Moved responses to same line as heading/numeric identifier, specifically:**

___ **Other:**



IFWO

RAW SEQUENCE LISTING

DATE: 02/28/2007

PATENT APPLICATION: US/10/552,287A

TIME: 08:56:21

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02282007\J552287A.raw

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3 <110> APPLICANT: FUTERMAN, Anthony
4   SUSSMAN, Joel L.
5   SILMAN, Israel
6   HAREL, Michal
7   DVIR, Hay
8   TOKER, Lilly
9   ADAMSKY, Svetlana
11 <120> TITLE OF INVENTION: GAUCHER DISEASE DRUGS AND METHODS OF IDENTIFYING SAME
13 <130> FILE REFERENCE: 30227
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/552,287A
C--> 15 <141> CURRENT FILING DATE: 2005-10-04
15 <160> NUMBER OF SEQ ID NOS: 16
17 <170> SOFTWARE: PatentIn version 3.2
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 497
21 <212> TYPE: PRT
22 <213> ORGANISM: Homo sapiens
24 <400> SEQUENCE: 1
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27 1           5           10           15
30 Val Cys Asn Ala Thr Tyr Cys Asp Ser Phe Asp Pro Pro Thr Phe Pro
31           20           25           30
34 Ala Leu Gly Thr Phe Ser Arg Tyr Glu Ser Thr Arg Ser Gly Arg Arg
35           35           40           45
38 Met Glu Leu Ser Met Gly Pro Ile Gln Ala Asn His Thr Gly Thr Gly
39           50           55           60
42 Leu Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly
43 65           70           75           80
46 Phe Gly Gly Ala Met Thr Asp Ala Ala Ala Leu Asn Ile Leu Ala Leu
47           85           90           95
50 Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu
51           100          105          110
54 Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe
55           115          120          125
58 Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu
59           130          135          140
62 His Asn Phe Ser Leu Pro Glu Glu Asp Thr Lys Leu Lys Ile Pro Leu
63 145          150          155          160
66 Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala
67           165          170          175
70 Ser Pro Trp Thr Ser Pro Thr Trp Leu Lys Thr Asn Gly Ala Val Asn
71           180          185          190
74 Gly Lys Gly Ser Leu Lys Gly Gln Pro Gly Asp Ile Tyr His Gln Thr

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Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02282007\J552287A.raw

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78 Trp Ala Arg Tyr Phe Val Lys Phe Leu Asp Ala Tyr Ala Glu His Lys
79          210          215          220
82 Leu Gln Phe Trp Ala Val Thr Ala Glu Asn Glu Pro Ser Ala Gly Leu
83 225          230          235          240
86 Leu Ser Gly Tyr Pro Phe Gln Cys Leu Gly Phe Thr Pro Glu His Gln
87          245          250          255
90 Arg Asp Phe Ile Ala Arg Asp Leu Gly Pro Thr Leu Ala Asn Ser Thr
91          260          265          270
94 His His Asn Val Arg Leu Leu Met Leu Asp Asp Gln Arg Leu Leu Leu
95          275          280          285
98 Pro His Trp Ala Lys Val Val Leu Thr Asp Pro Glu Ala Ala Lys Tyr
99          290          295          300
102 Val His Gly Ile Ala Val His Trp Tyr Leu Asp Phe Leu Ala Pro Ala
103 305          310          315          320
106 Lys Ala Thr Leu Gly Glu Thr His Arg Leu Phe Pro Asn Thr Met Leu
107          325          330          335
110 Phe Ala Ser Glu Ala Cys Val Gly Ser Lys Phe Trp Glu Gln Ser Val
111          340          345          350
114 Arg Leu Gly Ser Trp Asp Arg Gly Met Gln Tyr Ser His Ser Ile Ile
115          355          360          365
118 Thr Asn Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala
119          370          375          380
122 Leu Asn Pro Glu Gly Gly Pro Asn Trp Val Arg Asn Phe Val Asp Ser
123 385          390          395          400
126 Pro Ile Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met
127          405          410          415
130 Phe Tyr His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln
131          420          425          430
134 Arg Val Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala
135          435          440          445
138 Leu Met Asn Pro Asp Gly Ser Ala Val Val Val Val Leu Asn Arg Ser
139          450          455          460
142 Ser Lys Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu
143 465          470          475          480
146 Glu Thr Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg
147          485          490          495
150 Gln
154 <210> SEQ ID NO: 2
155 <211> LENGTH: 497
156 <212> TYPE: PRT
157 <213> ORGANISM: Homo sapiens
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161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (370)..(370)
163 <223> OTHER INFORMATION: Asn to Ser mutant
165 <400> SEQUENCE: 2
167 Ala Arg Pro Cys Ile Pro Lys Ser Phe Gly Tyr Ser Ser Val Val Cys
168 1          5          10          15

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DATE: 02/28/2007

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TIME: 08:56:21

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02282007\J552287A.raw

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171 Val Cys Asn Ala Thr Tyr Cys Asp Ser Phe Asp Pro Pro Thr Phe Pro
172          20          25          30
175 Ala Leu Gly Thr Phe Ser Arg Tyr Glu Ser Thr Arg Ser Gly Arg Arg
176          35          40          45
179 Met Glu Leu Ser Met Gly Pro Ile Gln Ala Asn His Thr Gly Thr Gly
180          50          55          60
183 Leu Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly
184 65          70          75          80
187 Phe Gly Gly Ala Met Thr Asp Ala Ala Ala Leu Asn Ile Leu Ala Leu
188          85          90          95
191 Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu
192          100          105          110
195 Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe
196          115          120          125
199 Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu
200          130          135          140
203 His Asn Phe Ser Leu Pro Glu Glu Asp Thr Lys Leu Lys Ile Pro Leu
204 145          150          155          160
207 Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala
208          165          170          175
211 Ser Pro Trp Thr Ser Pro Thr Trp Leu Lys Thr Asn Gly Ala Val Asn
212          180          185          190
215 Gly Lys Gly Ser Leu Lys Gly Gln Pro Gly Asp Ile Tyr His Gln Thr
216          195          200          205
219 Trp Ala Arg Tyr Phe Val Lys Phe Leu Asp Ala Tyr Ala Glu His Lys
220          210          215          220
223 Leu Gln Phe Trp Ala Val Thr Ala Glu Asn Glu Pro Ser Ala Gly Leu
224 225          230          235          240
227 Leu Ser Gly Tyr Pro Phe Gln Cys Leu Gly Phe Thr Pro Glu His Gln
228          245          250          255
231 Arg Asp Phe Ile Ala Arg Asp Leu Gly Pro Thr Leu Ala Asn Ser Thr
232          260          265          270
235 His His Asn Val Arg Leu Leu Met Leu Asp Asp Gln Arg Leu Leu Leu
236          275          280          285
239 Pro His Trp Ala Lys Val Val Leu Thr Asp Pro Glu Ala Ala Lys Tyr
240          290          295          300
243 Val His Gly Ile Ala Val His Trp Tyr Leu Asp Phe Leu Ala Pro Ala
244 305          310          315          320
247 Lys Ala Thr Leu Gly Glu Thr His Arg Leu Phe Pro Asn Thr Met Leu
248          325          330          335
251 Phe Ala Ser Glu Ala Cys Val Gly Ser Lys Phe Trp Glu Gln Ser Val
252          340          345          350
255 Arg Leu Gly Ser Trp Asp Arg Gly Met Gln Tyr Ser His Ser Ile Ile
256          355          360          365
259 Thr Ser Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala
260          370          375          380
263 Leu Asn Pro Glu Gly Gly Pro Asn Trp Val Arg Asn Phe Val Asp Ser
264 385          390          395          400
267 Pro Ile Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met

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PATENT APPLICATION: US/10/552,287A

TIME: 08:56:21

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02282007\J552287A.raw

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268          405          410          415
271 Phe Tyr His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln
272          420          425          430
275 Arg Val Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala
276          435          440          445
279 Leu Met Asn Pro Asp Gly Ser Ala Val Val Val Val Leu Asn Arg Ser
280          450          455          460
283 Ser Lys Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu
284 465          470          475          480
287 Glu Thr Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg
288          485          490          495
291 Gln
295 <210> SEQ ID NO: 3
296 <211> LENGTH: 497
297 <212> TYPE: PRT
298 <213> ORGANISM: Homo sapiens
301 <220> FEATURE:
302 <221> NAME/KEY: misc_feature
303 <222> LOCATION: (394)..(394)
304 <223> OTHER INFORMATION: Val to Leu mutant
306 <400> SEQUENCE: 3
308 Ala Arg Pro Cys Ile Pro Lys Ser Phe Gly Tyr Ser Ser Val Val Cys
309 1          5          10          15
312 Val Cys Asn Ala Thr Tyr Cys Asp Ser Phe Asp Pro Pro Thr Phe Pro
313          20          25          30
316 Ala Leu Gly Thr Phe Ser Arg Tyr Glu Ser Thr Arg Ser Gly Arg Arg
317          35          40          45
320 Met Glu Leu Ser Met Gly Pro Ile Gln Ala Asn His Thr Gly Thr Gly
321          50          55          60
324 Leu Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly
325 65          70          75          80
328 Phe Gly Gly Ala Met Thr Asp Ala Ala Ala Leu Asn Ile Leu Ala Leu
329          85          90          95
332 Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu
333          100          105          110
336 Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe
337          115          120          125
340 Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu
341          130          135          140
344 His Asn Phe Ser Leu Pro Glu Glu Asp Thr Lys Leu Lys Ile Pro Leu
345 145          150          155          160
348 Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala
349          165          170          175
352 Ser Pro Trp Thr Ser Pro Thr Trp Leu Lys Thr Asn Gly Ala Val Asn
353          180          185          190
356 Gly Lys Gly Ser Leu Lys Gly Gln Pro Gly Asp Ile Tyr His Gln Thr
357          195          200          205
360 Trp Ala Arg Tyr Phe Val Lys Phe Leu Asp Ala Tyr Ala Glu His Lys
361          210          215          220

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DATE: 02/28/2007

PATENT APPLICATION: US/10/552,287A

TIME: 08:56:21

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02282007\J552287A.raw

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364 Leu Gln Phe Trp Ala Val Thr Ala Glu Asn Glu Pro Ser Ala Gly Leu
365 225                230                235                240
368 Leu Ser Gly Tyr Pro Phe Gln Cys Leu Gly Phe Thr Pro Glu His Gln
369                245                250                255
372 Arg Asp Phe Ile Ala Arg Asp Leu Gly Pro Thr Leu Ala Asn Ser Thr
373                260                265                270
376 His His Asn Val Arg Leu Leu Met Leu Asp Asp Gln Arg Leu Leu Leu
377                275                280                285
380 Pro His Trp Ala Lys Val Val Leu Thr Asp Pro Glu Ala Ala Lys Tyr
381                290                295                300
384 Val His Gly Ile Ala Val His Trp Tyr Leu Asp Phe Leu Ala Pro Ala
385 305                310                315                320
388 Lys Ala Thr Leu Gly Glu Thr His Arg Leu Phe Pro Asn Thr Met Leu
389                325                330                335
392 Phe Ala Ser Glu Ala Cys Val Gly Ser Lys Phe Trp Glu Gln Ser Val
393                340                345                350
396 Arg Leu Gly Ser Trp Asp Arg Gly Met Gln Tyr Ser His Ser Ile Ile
397                355                360                365
400 Thr Asn Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala
401                370                375                380
404 Leu Asn Pro Glu Gly Gly Pro Asn Trp Leu Arg Asn Phe Val Asp Ser
405 385                390                395                400
408 Pro Ile Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met
409                405                410                415
412 Phe Tyr His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln
413                420                425                430
416 Arg Val Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala
417                435                440                445
420 Leu Met Asn Pro Asp Gly Ser Ala Val Val Val Val Leu Asn Arg Ser
421                450                455                460
424 Ser Lys Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu
425 465                470                475                480
428 Glu Thr Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg
429                485                490                495
432 Gln
436 <210> SEQ ID NO: 4
437 <211> LENGTH: 497
438 <212> TYPE: PRT
439 <213> ORGANISM: Homo sapiens
442 <220> FEATURE:
443 <221> NAME/KEY: misc_feature
444 <222> LOCATION: (409)..(409)
445 <223> OTHER INFORMATION: Asp to His mutant
447 <400> SEQUENCE: 4
449 Ala Arg Pro Cys Ile Pro Lys Ser Phe Gly Tyr Ser Ser Val Val Cys
450 1                5                10                15
453 Val Cys Asn Ala Thr Tyr Cys Asp Ser Phe Asp Pro Pro Thr Phe Pro
454                20                25                30
457 Ala Leu Gly Thr Phe Ser Arg Tyr Glu Ser Thr Arg Ser Gly Arg Arg

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/552,287A

DATE: 02/28/2007
TIME: 08:56:22

Input Set : A:\PTO.DA.txt
Output Set: N:\CRF4\02282007\J552287A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; Xaa Pos. 2,3

VERIFICATION SUMMARY

DATE: 02/28/2007

PATENT APPLICATION: US/10/552,287A

TIME: 08:56:22

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02282007\J552287A.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:2002.M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

**Raw Sequence Listing before editing,
for reference only**



IFWO

RAW SEQUENCE LISTING

DATE: 02/21/2007

PATENT APPLICATION: US/10/552,287A

TIME: 14:06:20

Input Set : A:\30227 Sequence Listing.txt

Output Set: N:\CRF4\02212007\J552287A.raw

3 <110> APPLICANT: FUTERMAN, Anthony
 4 SUSSMAN, Joel L.
 5 SILMAN, Israel
 6 HAREL, Michal
 7 DVIR, Hay
 8 TOKER, Lilly
 9 ADAMSKY, Swetlana
 11 <120> TITLE OF INVENTION: GAUCHER DISEASE DRUGS AND METHODS OF IDENTIFYING SAME
 13 <130> FILE REFERENCE: 30227
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/552,287A
 C--> 15 <141> CURRENT FILING DATE: 2005-10-04
 15 <160> NUMBER OF SEQ ID NOS: 16
 17 <170> SOFTWARE: PatentIn version 3.2

Does Not Comply
Corrected Diskette Needed

(p9-2)

ERRORED SEQUENCES

2007 <210> SEQ ID NO: 16
 2008 <211> LENGTH: 497
 2009 <212> TYPE: PRT
 2010 <213> ORGANISM: Pan troglodytes
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 2015 1 5 10 15
 2018 Val Cys Asn Ala Thr Tyr Cys Asp Ser Phe Asp Pro Pro Thr Phe Pro
 2019 20 25 30
 2022 Ala Leu Gly Thr Phe Ser Arg Tyr Glu Ser Thr Arg Ser Gly Arg Arg
 2023 35 40 45
 2026 Met Glu Leu Ser Met Gly Thr Ile Gln Ala Asn His Thr Gly Thr Gly
 2027 50 55 60
 2030 Leu Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly
 2031 65 70 75 80
 2034 Phe Gly Gly Ala Met Thr Asp Ala Ala Leu Asn Ile Leu Ala Leu
 2035 85 90 95
 2038 Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu
 2039 100 105 110
 2042 Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe
 2043 115 120 125
 2046 Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu
 2047 130 135 140
 2050 His Asn Phe Ser Leu Pro Glu Glu Asp Thr Lys Leu Lys Ile Pro Leu
 2051 145 150 155 160
 2054 Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala

RAW SEQUENCE LISTING

DATE: 02/21/2007

PATENT APPLICATION: US/10/552,287A

TIME: 14:06:20

Input Set : A:\30227 Sequence Listing.txt

Output Set: N:\CRF4\02212007\J552287A.raw

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2059		180		185		190
2062	Gly Lys Gly Ser	Leu Lys Gly Gln	Pro Gly Asp Ile	Tyr His Gln	Thr	
2063		195		200		205
2066	Trp Ala Arg Tyr	Phe Val Lys Phe	Leu Asp Ala Tyr	Ala Glu His	Lys	
2067		210		215		220
2070	Leu Gln Phe Trp	Ala Val Thr Ala	Glu Asn Glu Pro	Ser Ala Gly	Leu	
2071	225		230		235	240
2074	Leu Ser Gly Tyr	Pro Phe Gln Cys	Leu Gly Phe Thr	Pro Glu His	Gln	
2075		245		250		255
2078	Arg Asp Phe Ile	Ala Arg Asp Leu	Gly Pro Thr Leu	Ala Asn Ser	Thr	
2079		260		265		270
2082	His His Asn Val	Arg Leu Leu Met	Leu Asp Asp Gln	Arg Leu Leu	Leu	
2083		275		280		285
2086	Pro His Trp Ala	Lys Val Val Leu	Thr Asp Pro Glu	Ala Ala Lys	Tyr	
2087		290		295		300
2090	Val His Gly Ile	Ala Val His Trp	Tyr Leu Asp Phe	Leu Ala Pro	Ala	
2091	305		310		315	320
2094	Lys Ala Thr Leu	Gly Glu Thr His	Arg Leu Phe Pro	Asn Thr Met	Leu	
2095		325		330		335
2098	Phe Ala Ser Glu	Ala Cys Val Gly	Ser Lys Phe Trp	Glu Gln Ser	Val	
2099		340		345		350
2102	Arg Leu Gly Ser	Trp Asp Arg Gly	Met Gln Tyr Ser	His Ser Ile	Ile	
2103		355		360		365
2106	Thr Asn Leu Leu	Tyr His Val Gly	Trp Thr Asp Trp	Asn Leu Ala		
2107		370		375		380
2110	Leu Asn Pro Glu	Gly Gly Pro Asn	Trp Val Arg Asn	Phe Val Asp	Ser	
2111	385		390		395	400
2114	Pro Ile Ile Val	Asp Ile Thr Lys	Asp Thr Phe Tyr	Lys Gln Pro	Met	
2115		405		410		415
2118	Phe Tyr His Leu	Gly His Phe Ser	Lys Phe Ile Pro	Glu Gly Ser	Gln	
2119		420		425		430
2122	Arg Val Gly Leu	Val Ala Ser Gln	Lys Asn Asp Leu	Asp Ala Val	Ala	
2123		435		440		445
2126	Leu Met His Pro	Asp Gly Ser Ala	Val Val Val Val	Leu Asn Arg	Ser	
2127		450		455		460
2130	Ser Lys Asp Val	Pro Leu Thr Ile	Lys Asp Pro Ala	Val Gly Phe	Leu	
2131	465		470		475	480
2134	Glu Thr Ile Ser	Pro Gly Tyr Ser	Ile His Thr Tyr	Leu Trp Arg	Arg	
2135		485		490		495
2138	Gln					

E--> 2146

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VERIFICATION SUMMARY

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TIME: 14:06:21

Input Set : A:\30227 Sequence Listing.txt

Output Set: N:\CRF4\02212007\J552287A.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:2146 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16 .